

INTERNATIONAL SEARCH REPORT

International Application No.

T/FR2004/000009

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04J14/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04J 602F H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LEUTHOLD J ET AL OPTICAL SOCIETY OF AMERICA / INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS: "Linear all-optical wavelength conversion based an linear optical amplifier"</p> <p>OPTICAL FIBER COMMUNICATION CONFERENCE AND EXHIBIT. (OFC). TECHNICAL DIGEST.</p> <p>POSTCONFERENCE DIGEST. ANAHEIM, CA, MARCH 17 - 22, 2002, TRENDS IN OPTICS AND PHOTONICS SERIES. (TOPS), WASHINGTON, DC :</p> <p>OSA, US,</p> <p>vol. TOPS. VOL. 70,</p> <p>17 March 2002 (2002-03-17), pages 597-598,</p> <p>XP010618003</p> <p>ISBN: 1-55752-701-6</p> <p>page 597, middle column, paragraph 1 -</p> <p>page 598, left-hand column, paragraph 1;</p> <p>figure 1</p> <p>-----</p>	1-3
Y		5,6,8,9

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

• Special categories of cited documents :

- "A"** document defining the general state of the art which is not considered to be of particular relevance
- "E"** earlier document but published on or after the International filing date
- "L"** document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O"** document referring to an oral disclosure, use, exhibition or other means
- "P"** document published prior to the international filing date but later than the priority date claimed

- *T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *S document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

6 September 2004

16/09/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5618 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Roldán Andrade, J

INTERNATIONAL SEARCH REPORT

International Application No

. . /FR2004/000009

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 03/007068 A (DANMARKS TEKNISKE UNI ; BISCHOFF SVEND (DK); MOERK JESPER (DK)) 23 January 2003 (2003-01-23)</p> <p>page 1, line 4 - line 10 page 1, line 30 - line 33 page 8, line 18 - line 24 page 10, line 14 - page 11, line 4 page 16, line 7 - line 8; figure 1a page 16, line 24 - line 25; figure 1b page 19, line 24 - page 20, line 23; figures 4-6 page 25, line 16 - line 30</p> <p>-----</p>	1-3
Y	<p>EP 1 137 213 A (DDI CORP ; KDD SUBMARINE CABLE SYSTEMS IN (JP)) 26 September 2001 (2001-09-26)</p> <p>column 1, paragraph 2 column 2, paragraph 8 column 3, paragraph 15 column 4, paragraph 24 column 6, paragraph 30 - column 7, paragraph 34; figure 1 column 7, paragraph 37 - column 12, paragraph 52; figure 4</p> <p>-----</p>	5,6,8,9
A	<p>RAU L ET AL: "SIMULTANEOUS ALL-OPTICAL DEMULTIPLEXING OF A 40-GB/S SIGNAL TO 4 X 10 GB/S WDM CHANNELS USING AN ULTRAFAST FIBER WAVELENGTH CONVERTER" IEEE PHOTONICS TECHNOLOGY LETTERS, IEEE INC. NEW YORK, US, vol. 14, no. 12, December 2002 (2002-12), pages 1725-1727, XP001174690 ISSN: 1041-1135 cited in the application page 1725, left-hand column, paragraph 1 - page 1726, left-hand column, paragraph 1; figures 1a,1b</p> <p>-----</p>	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR2004/000009

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
WO 03007068	A	23-01-2003	WO 03007068 A1		23-01-2003
EP 1137213	A	26-09-2001	JP 2001274772 A EP 1137213 A2 US 2002126346 A1		05-10-2001 26-09-2001 12-09-2002